



S.S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS

October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 30, 2019

GSA Contract #GS-10F-0462M

EP-G145-00278

Option Period 2

S.S. Papadopoulos & Associates, Inc. acknowledges the January 2019 Stop Work Period.

**No work was performed between
December 31, 2018, 1:00PM through January 28, 2019, 9:25AM.**

Ex. 4 CBI

Anticipated Delays or Issues:

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None



Page 2
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks

Ex. 4 CBI



Page 3
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:
None.



Page 4
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI



Page 5
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 6
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 7
October 15, 2019

Ex. 4 CBI



Page 8
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None.

Schedule of Tasks:



Page 9
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Ex. 4 CBI



Page 10
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Personnel Changes:

None.



Page 11
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks

Ex. 4 CBI



Page 12
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Anticipated Delays or Issues:

1. Numerous activities depend on others maintaining planned schedules.

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None.



Page 13
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 14
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None.



Page 15
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 16
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Anticipated Delays or Issues:

1. Numerous activities depend on others maintaining planned schedules.

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None.



Page 17
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI

*To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPIV.



Page 18
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Personnel Changes:
None.



Page 19
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 20
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Anticipated Delays or Issues:

Forecasts of Potential New Tasks or Additional Hours/Costs:

Remaining approved (non-obligated) funding was received on February 2nd, 2018

Personnel Changes:

None.



Page 21
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 22
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

None



Page 23
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 24
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Personnel Changes:

None.



Page 25
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Schedule of Tasks:

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 26
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Forecasts of Potential New Tasks or Additional Hours/Costs:

Personnel Changes:

None.



Page 27
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 28
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

* To minimize duplication across tasks, reports may be subdivided or merged in order to best support RPM.



Page 29
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Site Name: **Pristine**
Project Number: 1453-039-00-10 0003AP
Vehicle: SSP&A
SSID: 0556
EPA CERCLA ID: OHD076773712
RPM: Judy Canova

Work Performed:

During this period, SSP&A met with EPA at headquarters to discuss project deliverables and continued working applying the GW model to evaluate capture by EW-4 and conditions in the vicinity of the source, performed concentration trend analyses, prepared a technical memorandum documenting work on the GE model, performed an analysis of hydraulic gradients outside the capture zone using the GW model and the R code, tracked particles released from the source area, mass balance analysis. Final Technical Memoranda were provided to EPA (Data Gaps, Evaluation of MNA, Comments on 2004 GW modeling report prepared by CRA). SSP&A worked on spatial analyses and software support to produce rose diagrams. Communications with EPA.

Completion (1 May 2017 through September 30, 2019):

% of Scope: 90%
% of Obligated Funds: 90%
% of Approved Funds: 90%

Remaining Funding:

Obligated Funds	\$191,729.44
Funds Used	\$172,015.32
Remaining Funds	\$19,714.12
Non-obligated Funds Remaining	\$0.00

Anticipated Delays or Issues:

None.

Forecasts of Potential New Tasks or Additional Hours/Costs:

None.

Personnel Changes:

None.



Page 30
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Contract Task #	Project Task #	Task	Work to be Completed	Estimated Completion / Delivery Date	Deliverable*
2.A.1	4 and 8	Mapping Hydraulic Gradients	<p>Hydraulic gradient analysis Technical Memo: Use the mapping tools developed in Phase I, for mapping of new of water level maps, as required, that better incorporate localized data such as the various pumping conditions of the two localized municipal drinking water extraction systems, the river, the buried bedrock channel, apparent eastward flow conditions in along the eastern boundary of the landfill, the depth of leachate and other site specific conditions.</p> <p>Web-based Map : Provide results of new analysis in the existing Web-based GIS tool developed in Phase I</p>	<p>60 days from receipt of data.</p> <p>60 days from request.</p>	Technical Memo; Web map
2.A.2	3	Optimizing Groundwater Monitoring Networks:	Technical Memo on resolving data gaps : Review RP's plan to resolve the data gap delineated in Phase I.	60 days from request.	Technical Memo
2.A.3	1,5,6,7	Evaluating Remedy Effectiveness and Remedial Progress:	<p>Technical Memo on updated modeling and status of remedy progress: Review any recent hydrogeologic studies and monitoring reports and a confirmation or an updating of the site conceptual hydrogeologic model and status of remedy progress if needed. 7) If requested by EPA, use the existing groundwater flow models updated in Phase I as required to be to determine remedy performance and evaluate the RP's proposed augmentation of the Site's remedy</p> <p>draft Technical Memo on areas of capture final Technical Memo on areas of capture: Determine expected temporal (separate & combined) areas of capture for the current two localized municipal drinking water extraction systems based on the RP proposed augmentation of the Site's remedy</p> <p>draft Technical Memo on MNA expected performance final Technical Memo on MNA expected performance: Determine expected performance of Monitored Natural Attenuation (MNA) as a remedy based on RP proposed augmentation of the Site's remedy</p>	<p>Draft: 75 days after receiving data</p> <p>Final: 30 days after receiving comments</p>	Technical Memos
2.A.4	2	Optimizing Remedial Actions:	Technical Memo detailing the analysis methods and results of the analysis. Electronic files of results as described in Task description. Analyze the RP proposed augmentation of the Site's remedy to determine effects on groundwater contaminate conditions nature and extent and determine changes over-time and determine 3D plume stability.	<p>Draft: 75 days after receiving data</p> <p>Final: 30 days after</p>	Technical Memo



Page 31
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

				receiving comments	
2.A.5.1	Option al 1	Review and Comment of EPA Region 5 Reports	Technical Memos on review of 4 periodic groundwater monitoring reports: Review four periodic groundwater monitoring reports that RPs are required to submit throughout the year.	60 days from request.	Technical Memos
2.A.5.2	Option al 2	Review and Comment of EPA Region 5 Reports	Evaluate one RP report that includes Remedy Effectiveness and Remedial Progress detailing the analysis methods and results of the analysis: Provide comprehensive detailed written report on the review of one additional RP developed Remedy Effectiveness and Remedial Progress report that may be submitted including reviewing the results of RP's analysis of the proposed augmentation of the Site's remedy.	Draft Report due 75 days from request Final Report within 30 days of receipt of comments.	Report



Page 32
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Anticipated Delays or Issues:
None.

Ex. 4 CBI



Page 33
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 34
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI

Anticipated Delays or Issues:

None.

Forecasts of Potential New Tasks or Additional Hours/Costs:

None.

Ex. 4 CBI



Page 35
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 36
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 37
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Monthly Administrative Status:

Ex. 4 CBI



Page 38
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI



Page 39
October 15, 2019

PROGRESS REPORT THROUGH SEPTEMBER 2019

Ex. 4 CBI